

METHOD FOR INCREASING THE STRENGTH OF A VOLUME OF SOIL, PARTICULARLY FOR CONTAINING AND SUPPORTING EXCAVATION FACES

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ABSTRACT OF THE DISCLOSURE

A method for increasing the strength of a volume of soil, particularly for containing and supporting excavation faces, which comprises at least one reinforcement step that consists in producing a plurality of mutually spaced reinforcement holes arranged substantially vertically or inclined with respect to a vertical direction in the volume of soil to be strengthened; reinforcement elements are then inserted in the reinforcement holes and are locked within the soil by injecting in the reinforcement holes a synthetic locking substance that expands by chemical reaction. The method can optionally also comprise a step for consolidation of the volume of soil by injecting, in injection holes that are arranged vertically or are inclined with respect to the vertical and are formed beforehand in the soil, a synthetic consolidation substance that expands by chemical reaction.

20 (Figure 10)